

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Abdelilah et al.

Serial No.: To Be Assigned

Filed: Concurrently Herewith

For: RECEIVERS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR AN
ANALOG MODEM THAT RECEIVES DATA SIGNALS FROM A DIGITAL
MODEM

Date: August 6, 2003

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. § 1.97**

Sir:

Attached is a list of documents on form PTO-1449. Items 1-103 listed on the PTO-1449 were cited in parent application Serial No. 09/264,085, filed March 8, 1999. Because the benefit of this application is claimed under 35 U.S.C. §120, no copies need to be furnished in accordance with 37 C.F.R. §1.98(d); however, copies will be furnished on request. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

Respectfully submitted,



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Traci A. Brown

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket Number: RAL919980074US2/4269-61CT		Serial No.: to be assigned	
				Applicants: Abdelilah et al.		Group: unknown	
				Filing Date: concurrently herewith			
U. S. PATENT DOCUMENTS							
Examine r Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	7	6,002,723	12/14/99	Chethik	375	317	
	7	6,005,893	12/21/99	Hyll	375	260	
	3	6,081,822	06/27/00	Hillery et al.	708	445	
	4	6,052,412	04-18-00	Ruether et al.	375	231	
	5	6,091,824	7/2000	Lin et al.	381	63	
	6	6,148,423	11-14-00	Le Mouel et al.	714	708	
	7	6,151,364	11-21-00	Ruether et al.	375	254	
	8	6,151,614	11-21-00	Ikeda	708	322	
	9	6,141,378	10/31/00	d'Orcye de Lantremange	375	222	
	10	6,167,095	12/26/00	Furukawa et al.	375	285	
	11	6,240,128	5/2001	Banerjea et al.	375	222	
	12	6,292,654	9/2001	Hessel et al.	375	346	
	13	6,304,594 B1	10/16/01	Salinger	375	222	
	14	6,337,999	1/2002	Orban	381	106	
	15	6,341,360	1/2002	Abdelilah et al.	375	233	
	16	5,517,213	05-14-96	Bhatt et al.	375	232	
	17	5,526,378	06-11-96	Knutson et al.	375	229	
	18	5,668,833	09-16-97	Kurokami et al.	375	233	
	19	5,742,642	04-21-98	Fertner	375	233	
	20	5,999,349	12-07-99	Choi	360	46	
	21	5,007,047	4/8/91	Sridhar et al.	370	32.1	
	22	5,249,205	09-28-93	Chennakeshu et al.	375	101	
	23	5,271,011	12-14-93	McMullan, Jr. et al.	371	5.3	
	24	5,293,401	03-08-94	Serfaty	375	13	
	25	5,309,484	05-03-94	McLane et al.	375	106	
	26	5,490,169	02-06-96	Blackwell et al.	375	232	
	27	5,471,508	11/28/95	Koslov	375	344	

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				Applicants: Abdelilah et al.			
				Filing Date: concurrently herewith		Group: unknown	
	28	5,710,793	01/20/98	Greenberg	375	232	
	29	5,987,069	11/16/99	Furukawa et al.	375	285	
	30	5,835,538	11/10/98	Townshend	375	295	
	31	5,831,561	11/3/98	Cai et al.	341	106	
	32	5,809,075	9/15/98	Townshend	375	340	
	33	5,801,695	9/1/98	Townshend	375	340	
	34	5,793,809	8/11/98	Holmquist	375	242	
	35	5,784,405	7/21/98	Betts et al.	375	222	
	36	5,778,024	7/7/98	McDonough	375	216	
	37	5,768,311	6/16/98	Betts et al.	375	222	
	38	5,761,247	6/2/98	Betts et al.	375	316	
	39	5,757,849	5/26/98	Gelblum et al.	375	222	
	40	5,754,594	5/19/98	Betts et al.	375	285	
	41	5,729,226	3/17/98	Betts et al.	341	94	
	42	5,598,401	1/28/97	Blackwell et al.	379	94	
	43	5,546,395	8/13/96	Sharma et al.	370	84	
	44	5,534,913	7/9/96	Majeti et al.	348	7	
	45	5,528,679	6/18/96	Taarud	379	34	
	46	5,528,625	6/18/96	Ayanoglu et al.	375	222	
	47	5,406,583	4/11/95	Dagdeviren	375	5	
	48	5,394,437	2/28/95	Ayanoglu et al.	375	222	
	49	5,394,110	2/28/95	Mizoguchi	329	304	
	50	5,291,479	3/1/94	Vaziri et al.	379	58.2	
	51	5,253,291	10/12/93	Naseer et al.	379	406	
	52	5,293,401	3/1994	Serfaty	375	231	
	53	5,210,755	5/11/93	Nagler et al.	379	108	
	54	5,157,690	10/20/92	Buttle	375	14	
	55	5,134,611	7/28/92	Steinka et al.	370	79	
	56	5,119,403	6/2/92	Krishnan	375	39	
	57	5,119,401	6/2/92	Tsujimoto	375	14	

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					Applicants: Abdelilah et al.		
					Filing Date: concurrently herewith		Group: unknown
	58	5,067,125	11/19/91	Tsuchida	370	79	
	59	5,052,000	9/24/91	Wang et al.	371	43	
	60	5,040,190	8/13/91	Smith et al.	375	4	
	61	5,033,062	7/16/91	Morrow et al.	375	7	
	62	5,014,299	5/7/91	Klupt et al.	379	98	
	63	4,995,030	2/19/91	Helf	370	32.1	
	64	4,985,902	1/15/91	Gurcan	375	14	
	65	4,972,360	11/20/90	Cuckier et al.	364	724.04	
	66	4,901,333	2/13/90	Hodgkiss	375	98	
	67	4,890,303	12/26/89	Bader	375	107	
	68	4,884,285	11/28/89	Heynen et al.	375	25	
	69	4,868,863	9/19/89	Hartley et al.	379	98	
	70	4,797,898	1/10/89	Martinez	375	7	
	71	4,792,964	12/1988	Yoshida	375	371	
	72	4,760,598	7/26/88	Ferrell	380	44	
	73	4,720,861	1/19/88	Bertrand	381	36	
	74	4,578,796	3/25/86	Caralambous et al.	375	8	
	75	4,577,310	3/18/86	Korsky et al.	370	58	
	76	4,450,556	5/22/84	Boleda et al.	370	58	
	77	4,434,322	2/28/84	Ferrell	178	22.13	
	78	4,270,027	5/26/81	Agrawal et al.	179	81R	
	79	4,237,552	12/2/80	Aikoh et al.	370	43	
	80	4,132,242	1/2/79	Carroll, Jr.	137	263	
	81	4,112,427	9/5/78	Hofer et al.	340	347	
	82	4,539,675	9/3/85	Fisher	370	32	
	83	3,729,717	4/24/73	de Koe et al.	340	172.5	
	84	3,683,120	8/8/72	Schenkel	179	15A	
	85	3,557,308	1/19/71	Alexander et al.	178	69.5	

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				Applicants: Abdelilah et al.			
				Filing Date: concurrently herewith		Group: unknown	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	86	WO 98/37657	8/27/98	PCT	H04L		
	87	WO 96/18261	6/13/96	PCT	H04M	11/00	
	88	0 669 740 A2	12/14/94	Europe	H04L	27/00	
	89	0 659 007 A2	11/8/94	Europe	H04M	11/06	
	90	0 473 116 A2	8/27/91	Europe	H04N	1/00	
	91	2 345 019	3/19/76	France	H04L	27/10	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	92	Erup, et al., "Interpolation in Digital Modems - Part II: Implementation and Performance," IEEE Transactions on Communications, Vol. 41, No. 6, June 1993, pp. 998-1008					
	93	Fischer, "Signal Mapping for PCM Modems," V-pcm Rapporteur Meeting, Sunriver, Oregon, USA, September 4-12, 1997, 5 pgs.					
	94	Gardner, "Interpolation in Digital Modems - Part I: Fundamentals," IEEE Transactions on Communications, Vol. 41, No. 3, March 1993, pp. 501-507					
	95	Humblet et al., "The Information Driveway," IEEE Communications Magazine, December 1996, pp. 64-68					
	96	Kalet et al., "The Capacity of PCM Voiceband Channels," IEEE International Conference on Communications '93, May 23-26, 1993, Geneva, Switzerland, pp. 507-511					
	97	Mueller et al., "Timing Recovery in Digital Synchronous Data Receiver," IEEE Transactions on Communications, Vol. Com-24, No. 5, May 1976, pp. 516-531					
	98	Okubo et al., "Building Block Design of Large Capacity PCM-TDMA Subscriber System and Direct Digital Interface to Digital Exchange," Japan Radio Co., Ltd., Japan, pp. 69-73					
	99	Pahlavan et al., "Nonlinear Quantization and the Design of Coded and Uncoded Signal Constellations," IEEE Transactions on Communications, Vol. 39, No. 8, August 1991, pp. 1207-1215					
	100	Proakis, "Digital Signaling Over a Channel with Intersymbol Interference," Digital Communications, McGraw-Hill Book Company, 1983, pgs. 373, 381					
	101	Williams et al., "Counteracting the Quantisation Noise from PCM Codecs," BT Laboratories, UK, pp. 24-29					
	102	Ayanoglu, et al.; <i>An Equalizer Design Technique for the PCM Modem: A New Modem for the Digital Public Switched Network</i> , IEEE Transactions on Communications; Vol. 46, No. 6; June 1988; Pages 763-774					
	103	Picchi, G. et al.; <i>A blind Sag-So-DFD-FS equalizer</i> , Inst. Of Electron. & Telecommun., Pisa Univ., Italy, This paper appears in: Communications, 1988, ICC '88. Digital Technology -Spanning the Universe. Conference Record., IEEE International Conference					

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